

Provide Error-Free FAA Airworthiness Certification Packages

**Goal : Submit Error-Free
Airworthiness Certification
Packages to the FAA**

Presented to: Southwest Designee Conference

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**Federal Aviation
Administration**



Submitted FAA Airworthiness Certification Packages

- **FAA is now ISO approved and has a Quality Management System (QMS). We are looking to constantly improve our procedures and the way we do business. All of us can:**
 - Examine and evaluate the procedures we use such as FAA Order 8130.2F and AC 21-12B and determine if we use them effectively
 - Ask ourselves questions, such as:
 - Are we submitting error-free airworthiness packages to the FAA?
 - If not, where are these errors being found?
 - How can we improve?



Submitted Amateur-built Aircraft Records/Packages

- The FAA took a sample of 27 amateur-built aircraft records/packages out of 2600 airworthiness documentation files from the Civil Aviation Registry and evaluated them for accuracy and completeness
- All 27 records had errors
- 73% of most frequently occurring errors are:
 - Missing program letter or three-view drawing or photo (14%)
 - Missing information on Aircraft Registration Application, Form 8050-1 (3%)
 - Missing information on operating limitations letter (2%)



Submitted Amateur-built Aircraft Records/Packages


- The following errors were specific to the Application for U.S. Airworthiness Certificate, Form 8130-6
 - Erroneous check mark on section V. B. (10%)
 - Incomplete section III.C. Aircraft Operation & Maintenance Records, block concerning “If Records in Compliance with 14 CFR 91.417” (8%)
 - Missing/erroneous AD compliance check on section III (8%)
 - Missing information on section V, FAA Representative Certification (6%)
 - Aircraft model name discrepancy between application and the Airworthiness Certificate, Form 8130-7 (5%)

Submitted Amateur-built Aircraft Records/Packages

- The following errors are specific to the Application for U.S. Airworthiness Certificate, Form 8130-6 (Cont)
 - Missing check mark on section VIII (5%)
 - Missing “N/A” on section III B. (4%)
 - Discrepancy in aircraft make/model between Form 8130-6 application and operating limitations letter (3%)
 - Discrepancy in aircraft model name on Form 8130-6 application and the Aircraft Registration Application, Form 8050-1 (2%)
 - Erroneous/Missing check mark on section V A. (2%)





 U.S. Department of Transportation Federal Aviation Administration		<h2 style="text-align: center;">APPLICATION FOR U.S. AIRWORTHINESS CERTIFICATE</h2>		INSTRUCTIONS - Print or type. Do not write in shaded areas; these are for FAA use only. Submit original only to an authorized FAA Representative. If additional space is required, use attachment. For special flight permits complete Sections II, VI, and VII as applicable.											
I. AIRCRAFT DESCRIPTION	1. REGISTRATION MARK		2. AIRCRAFT BUILDER'S NAME (print)		3. AIRCRAFT MODEL DESIGNATION										
	5. AIRCRAFT SERIAL NO.		6. ENGINE BUILDER'S NAME (print)		7. ENGINE MODEL DESIGNATION										
	8. NUMBER OF ENGINES		9. PROPELLER BUILDER'S NAME (print)		10. PROPELLER MODEL DESIGNATION										
					11. AIRCRAFT IS (check applicable) IMPORT										
APPLICATION IS HEREBY MADE FOR: (check applicable item)															
<table border="1" style="width: 100%;"> <tr> <td style="width: 5%;">A</td> <td style="width: 5%;">1</td> <td style="width: 40%;">STANDARD AIRWORTHINESS CERTIFICATE (indicate category)</td> <td style="width: 10%;">NORMAL</td> <td style="width: 10%;">UTILITY</td> <td style="width: 10%;">ACROBATIC</td> <td style="width: 10%;">TRANSPORT</td> <td style="width: 10%;">COMBATER</td> <td style="width: 10%;">BALLOON</td> <td style="width: 10%;">OTHER</td> </tr> </table>						A	1	STANDARD AIRWORTHINESS CERTIFICATE (indicate category)	NORMAL	UTILITY	ACROBATIC	TRANSPORT	COMBATER	BALLOON	OTHER
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B															
SPECIAL AIRWORTHINESS CERTIFICATE (check appropriate item)															
7 PRIMARY															
9 LIGHT-SPORT (indicate class)															
2 LIMITED															
5 PROVISIONAL (indicate class)															
3 RESTRICTED (indicate operation to be conducted)															
4 EXPERIMENTAL (indicate operation to be conducted)															
8 SPECIAL FLIGHT PERMIT (indicate operation to be conducted; then complete Section VI or VII as applicable on reverse side)															
C 6 MULTIPLE AIRWORTHINESS CERTIFICATE (check ABOVE Restricted Operation and Standard or Limited as applicable)															
<table border="1" style="width: 100%;"> <tr> <td colspan="2">A. REGISTERED OWNER (As shown on certificate of aircraft registration)</td> <td colspan="2">IF DEALER, CHECK HERE</td> </tr> <tr> <td colspan="2">NAME</td> <td colspan="2">ADDRESS</td> </tr> </table>						A. REGISTERED OWNER (As shown on certificate of aircraft registration)		IF DEALER, CHECK HERE		NAME		ADDRESS			
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FAA Quality Management System

- **The goal is to reduce FAA review time for these packages and submit error-free airworthiness certification records to the Aircraft Registry, AFS-750**
- **In this case, the FAA procedures were not being followed by the FAA or their designees**
- **The following improvement is recommended**
 - The FAA and designees need to evaluate all airworthiness records and packages more closely and examine all documents for accuracy and completeness.



FAA Quality Management System

- Answers to the questions at beginning of the presentation:
 - Are we submitting error-free airworthiness packages within the FAA?
 - No, too many errors are being found.
 - Where are these errors being found?
 - Sampled amateur-built records and packages, but it may include other airworthiness certification activities.
 - Do we need to and can we improve?
 - Yes, we all need to improve and we can!

Questions!